LCM, GCF and Prime Factor Tree

Name:_____   Date:_____

Factors

20, 28, 45, 52

Factors of 20   =   _____

Factors of 28   =   _____

Factors of 45   =   _____

Factors of 52   =   _____

LCM (Least Common Multiple)

1) 30 and 52   =   LCM:_____   2) 5 and 55   =   LCM:_____

3) 15 and 57   =   LCM:_____   4) 32 and 26   =   LCM:_____

GCF (Greatest Common Factor)

1) 8 and 30   =   GCF:_____   2) 60 and 96   =   GCF:_____

3) 20 and 24   =   GCF:_____   4) 63 and 84   =   GCF:_____

Draw the Prime Factor Tree and write all the prime factors

1)   45   2)   150   3)   25

Prime factors 45 = _____   Prime factors 150 = _____   Prime factors 25 = _____

LCM, GCF and Prime Factor Tree

Name:_____   Date:_____

Factors

20, 28, 45, 52

Factors of 20   =   1, 2, 4, 5, 10, 20

Factors of 28   =   1, 2, 4, 7, 14, 28

Factors of 45   =   1, 3, 5, 9, 15, 45

Factors of 52   =   1, 2, 4, 13, 26, 52

LCM (Least Common Multiple)

1) 30 and 52   =   LCM: 780   2) 5 and 55   =   LCM: 55

3) 15 and 57   =   LCM: 285   4) 32 and 26   =   LCM: 416

GCF (Greatest Common Factor)

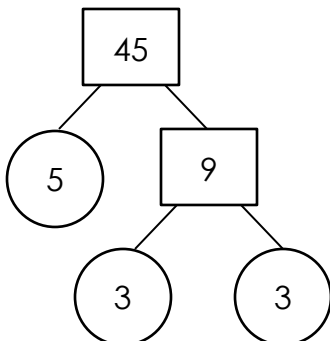1) 8 and 30   =   GCF: 2   2) 60 and 96   =   GCF: 12
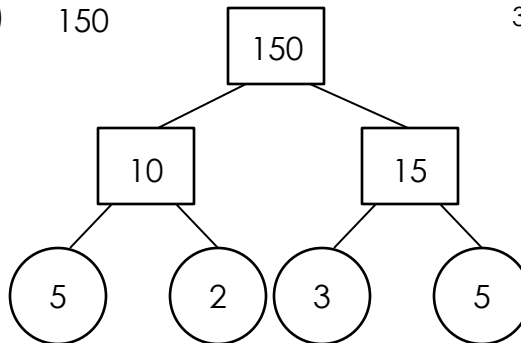
3) 20 and 24   =   GCF: 4   4) 63 and 84   =   GCF: 21
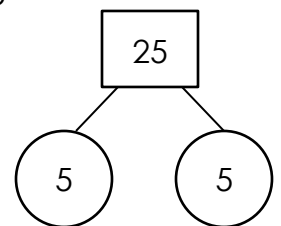
Draw the Prime Factor Tree and write all the prime factors

1)   45

```
        45
       /  \
      5    9
          / \
         3   3
```

2)   150

```
          150
         /    \
       10      15
      /  \    /  \
     5    2  3    5
```

3)   25

```
        25
       /  \
      5    5
```

Prime factors 45 = 3 x 3 x 5   Prime factors 150 = 5 x 3 x 2 x 5   Prime factors 25 = 5 x 5